# Electronic Siren Control Methods

## CMC4 MMI


The CMC4 MMI unit provides a means of siren control and interrogation for a single siren system.

- Control of up to 4 alarm signals & 4 pre-recorded messages.
- Microphone input connector for live voice messages.
- Silent test activation facility and test results displayed on the 2 line LCD.
- Communication link to the siren is via an RS485 interface.
- Power for the unit is provided by the RS485 interface.
- Key operated switch to disable signal & voice activation function.

## CMC500 MMI


The CMC500 MMI unit provides a means of control and interrogation required for a multiple siren system.

- Control of up to 16 alarm signals & 230 pre-recorded messages.
- Microphone input connector for live voice messages.
- LED display unit.
- User controllable alarm signal & message volume control.
- User controllable alarm signal & message repetition rate control.
- User controllable siren group control.
- Siren silent test activation facility and test results displayed on the 2 line LCD.
- Communication link to the siren is via an RS485 interface.
- Power for the unit is provided by an integral re-chargeable battery pack.
- Multi-user identification & control restriction function

## Talos 20 Software MMI Console


The software which operates under Microsoft windows allows the means of control and interrogation required for a multiple siren system.

- Control of up to 16 alarm signals & 230 pre-recorded messages.
- Live voice control facility.
- Siren silent test activation facility and test results displayed.
- User definable legends.
- Master volume control.
- User definable siren group allocation.
- Event & test logs.

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# Electronic Siren Control Methods

## Radio and Control Equipment

**Siren radio communication equipment:**

- Motorola GM340 Databox. Transceiver. Operating frequencies VHF 136-174 MHz, or UHF 403-470 MHz.
- Antenna. 3-Element YAGI
- 15 m coaxial antenna feeder
- TK401 Data Modem 1200-4800 bps
- Cables and accessory connector

**Base station communication equipment:**
Simplex transceiver for voice and DATA computer connection.

- Operating frequencies VHF 136-174 MHz, or UHF 403-470 MHz.
- RF power 1 to 25 W programmable.
- RJ45 input for Motorola desktop Microphone (HMN-3000B) for announcement.
- External battery 12V/44AH for continues operation when AC failure.
- Integrated power supply 120W - 110/230VAC for continues operating and charging battery.
- TK401 Radio-modem 1200 - 4800 Bps Transparent Mode with DB9 pins RS232 I/O.
- Cabinet 19" Rack 2U, with temperature control fan. (Wall mounting cabinet optional).
- Antenna VHF (3DB) or UHF (5 DB) Collinear.
- 30 m coaxial antenna feeder

**Control Station:**

- Workstation. Pentium 400MHz 64 bit processor, keyboard, mouse, and CD Rom drive.
- 17 inch touch screen
- UPS 30 minutes
- Printer. Dot Matrix – Sheet Feeder
- Desk microphone.

Or

- CMC4 control engineers panel
- Microphone.

**Control Software for PC based control station:**
TALOS software for Windows XP operation with the following features/capabilities.

- Group or individual activation and different zones.
- Activate 16 different signals programmable,
- Activate 255 different WAV Files.
- Activate live audio.
- Remote control all the sirens parameters:
  - AC monitors.
  - Batteries voltage.
  - Auto report at any changes of programmable I/Os.
  - Test amplifiers and drivers. Quiet Test (Test performed at 10KHz
- Log all reports to file or printer

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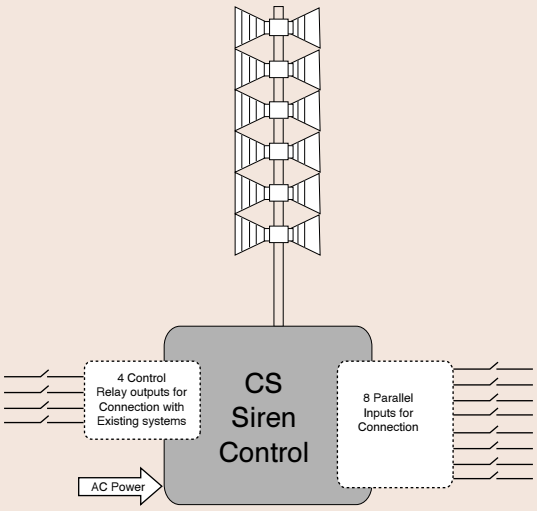
## Control Methods

The siren control communication network can be implemented using any one of the following systems or with a combination of two of these systems.

- Land Mobile Narrow Band FM Radio. Operating frequencies VHF 136 - 174 MHz or UHF 403-470 MHz. Data and voice.
- TETRA. Data and voice.
- APCO - 25 (For use in the USA)
- 2.4 & 5.8 GHz spread spectrum frequency hopping microwave radio data and voice.
- Single or bidirectional COFDM radio. Data and voice.
- Direct satellite - bidirectional data and voice.
- GSM and GPRS. Data. *Voice subject to local service provider.*
- Serial data and voice over 600 ohm lines (POT).
- RS-485 data.
- Fibre optic networks. Data and voice.
- TCP/IP. Data and VoIP.
- Serial data from SCADA terminal with standard DCS protocols.
- Parallel dry contact from SCADA or dedicated cables.

### Simple siren control by hardwire parallel inputs & control out puts.

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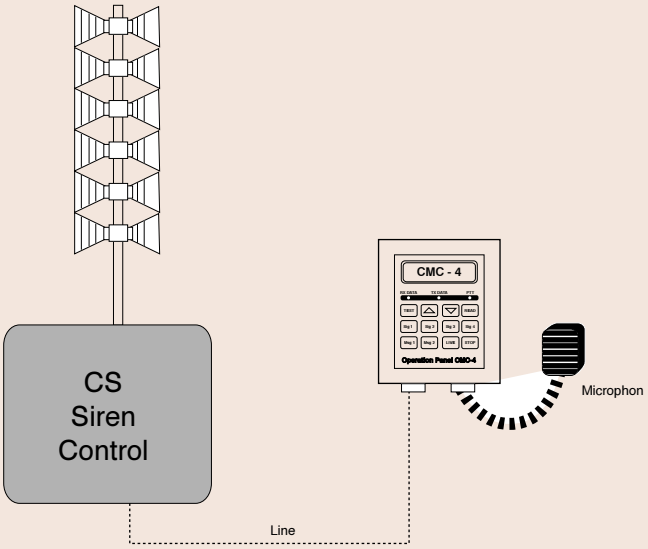
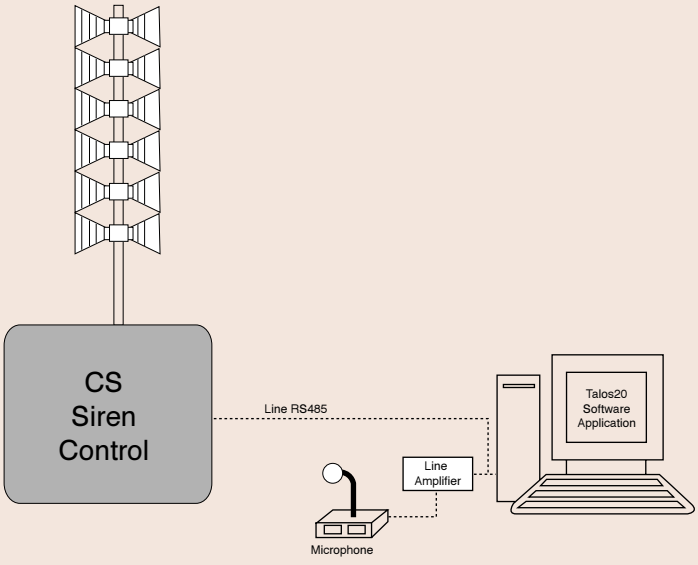
# Electronic Siren Control Methods

## Siren System by remote control by CMC-4.




## Siren System remote control by RS485 and computer.

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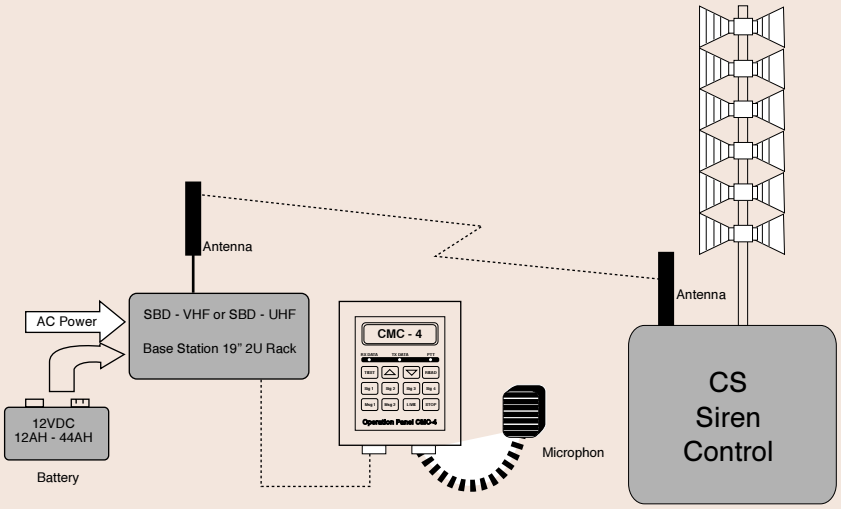
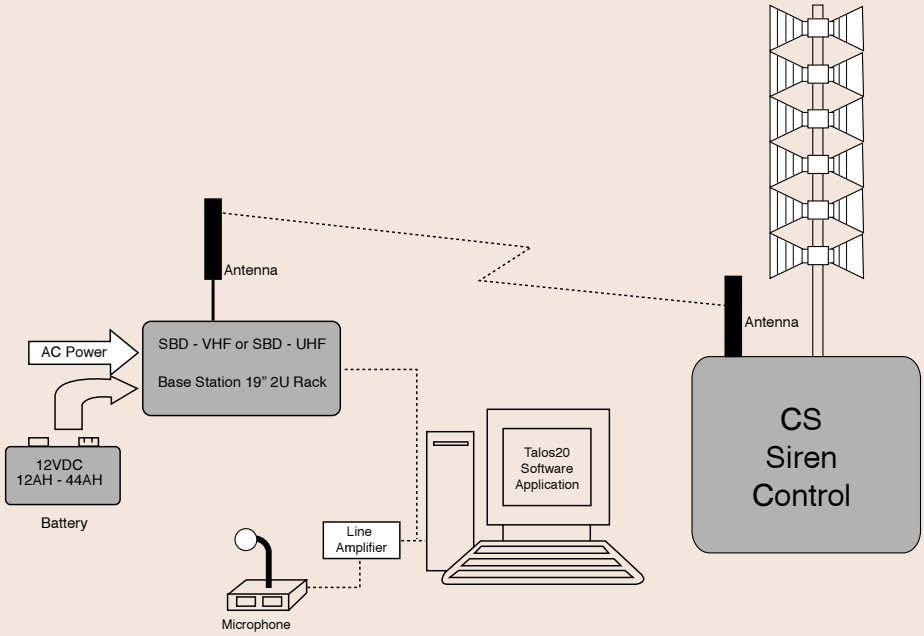
# Electronic Siren Control Methods

## Siren System remote control by radio and CMC-4.




## Siren System remote control by radio and computer.

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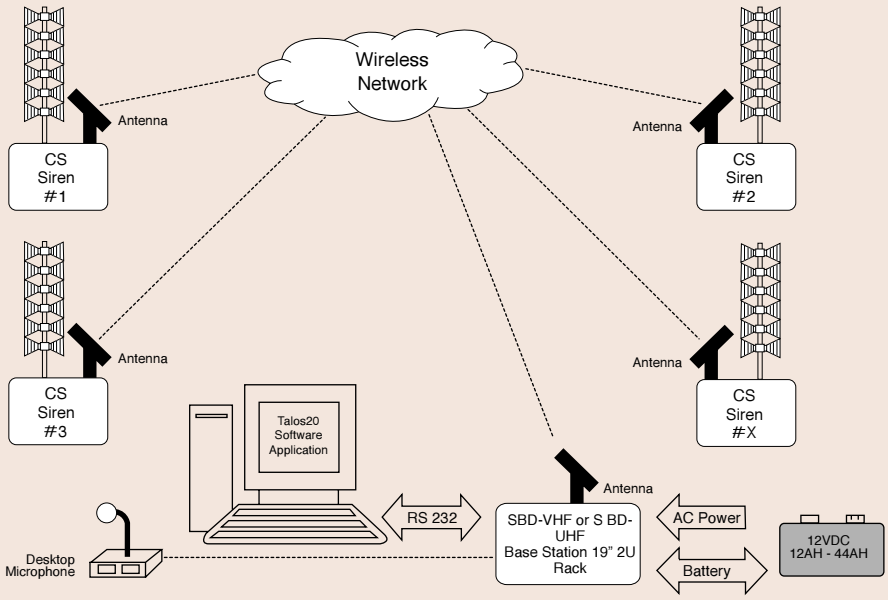
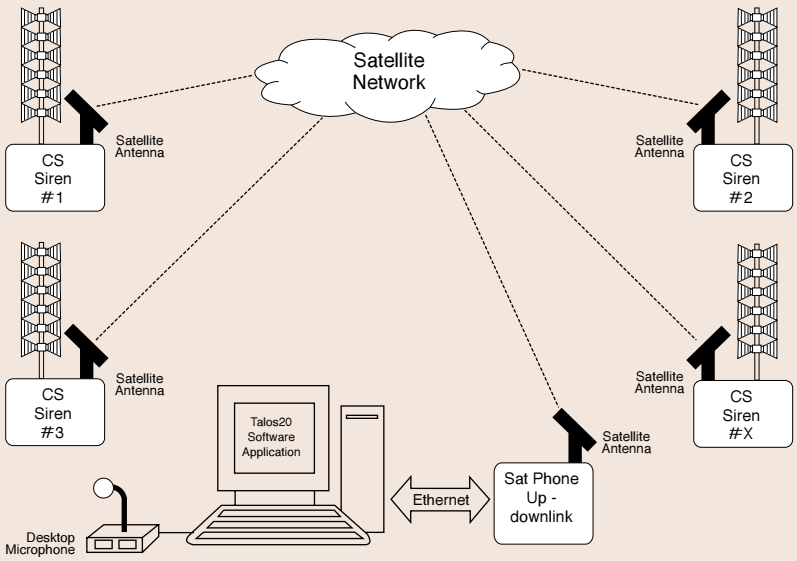
# Electronic Siren Control Methods

## Multi siren system remote controlled by radio and computer.




## Multi siren system remote controlled by satellite network and computer.

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